

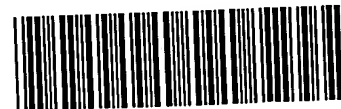
#11
472-02

B. Whiteman

Re-run

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APR 16 2002



TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,678A

DATE: 04/10/2002

TIME: 09:30:51

Input Set : N:\paola\US09964678A.RAW

Output Set: N:\CRF3\04102002\I964678A.raw

1 <110> APPLICANT: de la Monte, Suzanne
 2 Wands, Jack R.
 3 <120> TITLE OF INVENTION: Transgenic Animals and Cell Lines for Screening Drugs
 4 Effective for the Treatment or Prevention of
 5 Alzheimer's Disease
 6 <130> FILE REFERENCE: 0609.4370002
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/964,678A
 8 <141> CURRENT FILING DATE: 2001-09-28
 9 <150> PRIOR APPLICATION NUMBER: 09/380,203
 10 <151> PRIOR FILING DATE: 2000-04-25
 11 <150> PRIOR APPLICATION NUMBER: PCT/US98/03685
 12 <151> PRIOR FILING DATE: 1998-02-26
 13 <150> PRIOR APPLICATION NUMBER: 60/038,908
 14 <151> PRIOR FILING DATE: 1997-02-26
 15 <160> NUMBER OF SEQ ID NOS: 14
 16 <170> SOFTWARE: PatentIn version 3.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 1442
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Unknown
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: AD7c-NTP cDNA
 W--> 24 <221> NAME/KEY: CDS
 25 <222> LOCATION: (15)..(1139)
 26 <223> OTHER INFORMATION:

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 29 Met Glu Phe Ser Leu Leu Leu Pro Arg Leu Glu Cys 10
 30 1 5 10
 31 aat ggc gca atc tca gct cac cgc aac ctc cgc ctc ccg ggt tca agc 98
 32 Asn Gly Ala Ile Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser 25
 33 15 20 25
 34 gat tct cct gcc tca gcc tcc cca gta gct ggg att aca ggc atg tgc 146
 35 Asp Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys 40
 36 30 35 40
 37 acc cac gct cgg cta att ttg tat ttt ttt tta gta gag atg gag ttt 194
 38 Thr His Ala Arg Leu Ile Leu Tyr Phe Phe Leu Val Glu Met Glu Phe 60
 39 45 50 55 60
 40 ctc cat gtt ggt cag gct ggt ctc gaa ctc ccg acc tca gat gat ccc 242
 41 Leu His Val Gly Gln Ala Gly Leu Glu Leu Pro Thr Ser Asp Asp Pro 75
 42 65 70 75
 43 tcc gtc tgc gcc tcc caa agt gct aga tac agg act ggc cac cat gcc 290
 44 Ser Val Ser Ala Ser Gln Ser Ala Arg Tyr Arg Thr Gly His His Ala

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/964,678A

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Input Set : N:\paola\US09964678A.RAW
 Output Set: N:\CRF3\04102002\I964678A.raw

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46	cgg ctc tgc ctg gct aat ttt tgt ggt aga aac agg gtt tca ctg atg			
47	Arg Leu Cys Leu Ala Asn Phe Cys Gly Arg Asn Arg Val Ser Leu Met			
48	95	100	105	386
49	tgc cca agc tgg tct cct gag ctc aag cag tcc acc tgc ctc agc ctc			
50	Cys Pro Ser Trp Ser Pro Glu Leu Lys Gln Ser Thr Cys Leu Ser Leu			
51	110	115	120	434
52	cca aag tgc tgg gat tac agg cgt gca gcc gtg cct ggc ctt ttt att			
53	Pro Lys Cys Trp Asp Tyr Arg Arg Ala Ala Val Pro Gly Leu Phe Ile			
54	125	130	135	482
55	tta ttt ttt tta aga cac agg tgt ccc act ctt acc cag gat gaa gtg			
56	Leu Phe Phe Leu Arg His Arg Cys Pro Thr Leu Thr Gln Asp Glu Val			
57	145	150	155	530
58	cag tgg tgt gat cac agc tca ctg cag cct tca act cct gag atc aag			
59	Gln Trp Cys Asp His Ser Ser Leu Gln Pro Ser Thr Pro Glu Ile Lys			
60	160	165	170	578
61	cat cct cct gcc tca gcc tcc caa gta gct ggg acc aaa gac atg cac			
62	His Pro Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Lys Asp Met His			
63	175	180	185	626
64	cac tac acc tgg cta att ttt att ttt att ttt aat ttt ttg aga cag			
65	His Tyr Thr Trp Leu Ile Phe Ile Phe Ile Phe Asn Phe Leu Arg Gln			
66	190	195	200	674
67	agt ctc aac tct gtc acc cag gct gga gtg cag tgg cgc aat ctt ggc			
68	Ser Leu Asn Ser Val Thr Gln Ala Gly Val Gln Trp Arg Asn Leu Gly			
69	205	210	215	722
70	tca ctg caa cct ctg cct ccc ggg ttc aag tta ttc tcc tgc ccc agc			
71	Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Leu Phe Ser Cys Pro Ser			
72	225	230	235	770
73	ctc ctg agt agc tgg gac tac agg cgc cca cca cgc cta gct aat ttt			
74	Leu Leu Ser Ser Trp Asp Tyr Arg Arg Pro Pro Arg Leu Ala Asn Phe			
75	240	245	250	818
76	ttt gta ttt tta gta gag atg ggg ttc acc atg ttc gcc agg ttg atc			
77	Phe Val Phe Leu Val Glu Met Gly Phe Thr Met Phe Ala Arg Leu Ile			
78	255	260	265	866
79	ttg atc tct gga cct tgt gat ctg cct gcc tcg gcc tcc caa agt gct			
80	Leu Ile Ser Gly Pro Cys Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala			
81	270	275	280	914
82	ggg att aca ggc gtg agc cac cac gcc cgg ctt att ttt aat ttt tgt			
83	Gly Ile Thr Gly Val Ser His His Ala Arg Leu Ile Phe Asn Phe Cys			
84	285	290	295	962
85	ttg ttt gaa atg gaa tct cac tct gtt acc cag gct gga gtg caa tgg			
86	Leu Phe Glu Met Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp			
87	305	310	315	1010
88	cca aat ctc ggc tca ctg caa cct ctg cct ccc ggg ctc aag cga ttc			
89	Pro Asn Leu Gly Ser Leu Gln Pro Leu Pro Pro Gly Leu Lys Arg Phe			
90	320	325	330	1058
91	tcc tgt ctc agc ctc cca agc agc tgg gat tac ggg cac ctg cca cca			
92	Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Gly His Leu Pro Pro			
93	335	340	345	

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Input Set : N:\paola\US09964678A.RAW
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94      cac ccc gct aat ttt tgt att ttc att aga ggc ggg gtt tca cca tat      1106
95      His Pro Ala Asn Phe Cys Ile Phe Ile Arg Gly Gly Val Ser Pro Tyr
96      350                               355                               360
97      ttg tca ggc tgg tct caa act cct gac ctc agg tgaccacacct gcctcagcct      1159
98      Leu Ser Gly Trp Ser Gln Thr Pro Asp Leu Arg
99      365                               370                               375
100     tccaaagtgc tgggattaca ggcgtgagcc acctcaccca gccggctaatt ttagataaaa      1219
101     aaatatgtag caatgggggg tcttgctatg ttgccaggc tggctctcaaa cttctggcctt      1279
102     catgcaatcc ttccaaatga gccacaacac ccagccagtc acatttttta aacagttaca      1339
103     tctttatttt agtatactag aaagtaatac aataaacatg tcaaacctgc aaattcagta      1399
104     gtaacagagt tcttttataa cttttaaaca aagctttaga gca                        1442
106 <210> SEQ ID NO: 2
107 <211> LENGTH: 375
108 <212> TYPE: PRT
109 <213> ORGANISM: Unknown
110 <220> FEATURE:
111 <223> OTHER INFORMATION: AD7c-NTP cDNA
112 <400> SEQUENCE: 2
113     Met Glu Phe Ser Leu Leu Leu Pro Arg Leu Glu Cys Asn Gly Ala Ile
114     1                               5                               10                               15
115     Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro Ala
116     20                               25                               30
117     Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys Thr His Ala Arg
118     35                               40                               45
119     Leu Ile Leu Tyr Phe Phe Leu Val Glu Met Glu Phe Leu His Val Gly
120     50                               55                               60
121     Gln Ala Gly Leu Glu Leu Pro Thr Ser Asp Asp Pro Ser Val Ser Ala
122     65                               70                               75                               80
123     Ser Gln Ser Ala Arg Tyr Arg Thr Gly His His Ala Arg Leu Cys Leu
124     85                               90                               95
125     Ala Asn Phe Cys Gly Arg Asn Arg Val Ser Leu Met Cys Pro Ser Trp
126     100                              105                              110
127     Ser Pro Glu Leu Lys Gln Ser Thr Cys Leu Ser Leu Pro Lys Cys Trp
128     115                              120                              125
129     Asp Tyr Arg Arg Ala Ala Val Pro Gly Leu Phe Ile Leu Phe Phe Leu
130     130                              135                              140
131     Arg His Arg Cys Pro Thr Leu Thr Gln Asp Glu Val Gln Trp Cys Asp
132     145                              150                              155                              160
133     His Ser Ser Leu Gln Pro Ser Thr Pro Glu Ile Lys His Pro Pro Ala
134     165                              170                              175
135     Ser Ala Ser Gln Val Ala Gly Thr Lys Asp Met His His Tyr Thr Trp
136     180                              185                              190
137     Leu Ile Phe Ile Phe Ile Phe Asn Phe Leu Arg Gln Ser Leu Asn Ser
138     195                              200                              205
139     Val Thr Gln Ala Gly Val Gln Trp Arg Asn Leu Gly Ser Leu Gln Pro
140     210                              215                              220
141     Leu Pro Pro Gly Phe Lys Leu Phe Ser Cys Pro Ser Leu Leu Ser Ser
142     225                              230                              235                              240
143     Trp Asp Tyr Arg Arg Pro Pro Arg Leu Ala Asn Phe Phe Val Phe Leu

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/964,678A

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Input Set : N:\paola\US09964678A.RAW
Output Set: N:\CRF3\04102002\I964678A.raw

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144                               245                               250                               255
145 Val Glu Met Gly Phe Thr Met Phe Ala Arg Leu Ile Leu Ile Ser Gly
146                               260                               265                               270
147 Pro Cys Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly
148                               275                               280                               285
149 Val Ser His His Ala Arg Leu Ile Phe Asn Phe Cys Leu Phe Glu Met
150                               290                               295                               300
151 Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp Pro Asn Leu Gly
152                               305                               310                               315                               320
153 Ser Leu Gln Pro Leu Pro Pro Gly Leu Lys Arg Phe Ser Cys Leu Ser
154                               325                               330                               335
155 Leu Pro Ser Ser Trp Asp Tyr Gly His Leu Pro Pro His Pro Ala Asn
156                               340                               345                               350
157 Phe Cys Ile Phe Ile Arg Gly Gly Val Ser Pro Tyr Leu Ser Gly Trp
158                               355                               360                               365
159 Ser Gln Thr Pro Asp Leu Arg
160                               370                               375
162 <210> SEQ ID NO: 3
163 <211> LENGTH: 1381
164 <212> TYPE: DNA
165 <213> ORGANISM: Unknown
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Incorrect sequence of AD7c-NTP DNA
168 <400> SEQUENCE: 3
169 tttttttttt gagatggagt tttcgtcttt gttgcccagg ctggagtgca atggcgcaat 60
170 ctcagctcac cgcaacctcc gcctcccggg ttcaagcgat tctcctgcct cagcctcccc 120
171 agtagctggg attacaggca tgtgcaccac gctcggctaa ttttgtattt ttttttagta 180
172 gagatggagt ttaactccat gttgggtcagg ctgggtctcga actcccgacc tcagatgatc 240
173 tcccgctctcg gcctgcccac agtgctgaga ttacaggcat gagccaccat gcccggcctc 300
174 tgcttggtcta atttttgttg tagaaacagg gtttcaactga tgttgcccaa gctgggtctc 360
175 tgagctcaaag cagtccacct gcctcagcct cccaaagtgc tgggattaca ggcgtcagcc 420
176 gtgcctggcc tttttatattt atttttttta agacacagg gtaccactct taccaggat 480
177 gaagtgcagt ggtgtgatca cagctcactg cagccttcaa ctctgagat caagcaatcc 540
178 tcctgcctca gcctcccaag tagctgggac caaagacatg caccactaca cctggtaatt 600
179 tttattttta tttttaattt tttgagacag agtctcactc tgtcaccag gctggagtgc 660
180 agtggcgcaa tcttggtctca ctgcaacctc tgccctccgg gttcaagtta ttctcctgcc 720
181 ccagcctcct gtagtagctg gactacaggc gccaccacg cctagctaatt ttttttgat 780
182 ttttagtaga gatgggggtt caccatgttc gccagggtga tcttgatctc ttgacctgt 840
183 gatctgcctg cctcggccta cccaaagtgc tgggattaca ggtcgtgact ccacgccggc 900
184 ctatttttaa tttttgttg tttgaaatgg aatctcactc tgttaccag gtcggagtgc 960
185 aatggcaaat ctcggtact cgcaacctct gcctcccggg tcaagcgatt ctctgtctc 1020
186 agcctcccaa gcagctggga ttacgggacc tgcaaccac cccgctaatt tttgtatatt 1080
187 cattagaggc gggtttacca tatttgtcag gctgggtctc aaactcctga cctcagggtga 1140
188 cccacctgcc tcagccttcc aaagtgtg gattacaggc gtgagccacc tcaccagcc 1200
189 ggctaatttg gaataaaaaa tatgtagcaa tgggggtctg ctatgttgcc caggctggc 1260
190 tcaaacttct ggcttcagtc aatccttcca aatgagccac aacaccagc cagtcacatt 1320
191 ttttaaacag ttacatcttt attttagtat actagaaagt aatacaataa acatgtcaaa 1381
192 c
194 <210> SEQ ID NO: 4

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RAW SEQUENCE LISTING

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TIME: 09:30:52

Input Set : N:\paola\US09964678A.RAW

Output Set: N:\CRF3\04102002\I964678A.raw

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195 <211> LENGTH: 1418
196 <212> TYPE: DNA
197 <213> ORGANISM: Unknown
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Incorrect sequence of AD7c-NTP cDNA
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203      agtaggctgg gattacaggc atgtgcacca cgctcggcta attttgtatt tttttttagt      180
204      agagatggag tttctccatg ttggtcaggc tggctcgaag ctccgacctc agatgatcct      240
205      cccgtctcgg cctcccaaag tgctagatac aggactgagc accatgcccg gcctctgcct      300
206      ggctaatttt tgtggtagaa acaggggttt actgatgtgc ccaagctggg ctcctgagct      360
207      caagcagtc acctgcctca gcctcccaaa gtgctgggat tacaggcgtg cagccgtgcc      420
208      tggccttttt attttatttt ttttaagaca cagggtgtccc actcttacct aggatgaagt      480
209      gcagtgggtg gatcacagct cactgcagcc ttcaactctg agatcaagca tcctcctgcc      540
210      tcagcctccc aaagtagctg ggaccaaaga catgcaccac tacacctggc taatttttat      600
211      ttttattttt aattttttga gacagagtct caactctgtc acccaggctg gagtgcagtg      660
212      gcgcaatctt ggctcactgc aacctctgcc tcccgggttc aagttattct cctgccccag      720
213      cctcctgagt agctgggact acaggcgccc accacgccta gctaattttt ttgtattttt      780
214      agtagagatg gggtttcacc atgttcgcca ggttgatgct agatctcttg acctgtgat      840
215      ctgctgcct cgccctccca aagtgtctgg attacaggac gtgacgcca ccgcccggcc      900
216      tatttttaat ttttgtttgt ttgaaatgga atctcactct gttaccagg ctggagtgca      960
217      atggccaaat ctcggctcac tgcaacctct gcctcccggg ctcaagcgat tctcctgtct      1020
218      cagcctccca agcagctggg attacgggca cctgcaccac accccgctaa tttttgtatt      1080
219      ttcattagag ggggggtttc accatatttg tcaggctggg ctcaaactcc tgacctcagg      1140
220      tgaccacact gcctcagcct tccaaagtgc tgggattaca ggcgtagcgc ctcaccagc      1200
221      cggctaattt agataaaaaa atatgtagca atggggggtc ttgctatgtt gccaggctg      1260
222      gtctcaaact tctggcttca tgcaatcctt ccaaatgagc cacaacaccc agccagtcac      1320
223      atttttaaac agttacatct ttattttagt atactagaaa gtgatacgat aacatggcgg      1380
224      aacctgcaaa ttcgagtagt acagagtctt ttataact      1418
226 <210> SEQ ID NO: 5
227 <211> LENGTH: 22
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: AD7c-NTP oligonucleotide
232 <400> SEQUENCE: 5
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235 <210> SEQ ID NO: 6
236 <211> LENGTH: 24
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: AD7c-NTP oligonucleotide
241 <400> SEQUENCE: 6
242      aagcaggcag atcacaaggt ccag
244 <210> SEQ ID NO: 7
245 <211> LENGTH: 20
246 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : N:\paola\US09964678A.RAW
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 11
Seq#:13; N Pos. 11
Seq#:14; N Pos. 11

VERIFICATION SUMMARY

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Input Set : N:\paola\US09964678A.RAW

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L:7 M:270 C: Current Application Number differs, Wrong Format
L:24 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:27 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:295 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:298 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:307 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:310 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:319 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:322 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0